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| L14 25 | S L11 AND INHIBITING (L) ADHESION |
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| L16 1 | S E3 AND RJ |
| | E DOYLE |
| L17 359 | S E3 AND INHIBITING |
| L18 80 | S L17 AND ADHESION |
| L19 16 | S L18 AND MICROORGANISM |
| L20 16 | DUP REM L19 (0 DUPLICATES REMOVED) |
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20 ANSWER 1 OF 16 USPATFULL

ACCESSION NUMBER:

2002:92094 USPATFULL

TITLE:

Anti-microbial-adhesion fraction derived from

vaccinium

INVENTOR(S):

Ofek, Itzhak, Givataun, ISRAEL Weiss, Ervin, Herzeliya, ISRAEL Kashman, Yoel, Tel Aviv, ISRAEL Goldhar, Janina, Tel Aviv, ISRAEL Sharon, Nathan, Tel Aviv, ISRAEL

| | NUMBER | KIND | DATE |
|---------------------|----------------|-----------|----------|
| | | | |
| PATENT INFORMATION: | US 2002048611 | A1 | 20020425 |
| APPLICATION INFO.: | US 2001-916486 | A1 | 20010727 |

A1 20010727 (9) US 2001-916486

RELATED APPLN. INFO.: Division of Ser. No. US 1998-159626, filed on 24 Sep

1998, GRANTED, Pat. No. US 6303125 Continuation-in-part of Ser. No. US 1996-772021, filed on 19 Dec 1996,

GRANTED, Pat. No. US 5840322

DOCUMENT TYPE: FILE SEGMENT:

Utility APPLICATION

LEGAL REPRESENTATIVE: KOHN & ASSOCIATES, Suite 410, 30500 Northwestern

Highway, Farmington Hills, MI, 48334

NUMBER OF CLAIMS: 15 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS:

8 Drawing Page(s)

LINE COUNT:

1642

L20 ANSWER 2 OF 16 USPATFULL

ACCESSION NUMBER: 2002:48017 USPATFULL

TITLE:

NUCLEIC ACID ENCODING FELINE CD86

INVENTOR(S):

COLLISSON, ELLEN W., COLLEGE STATION, TX, UNITED STATES

HASH, STEPHEN M., AUSTIN, TX, UNITED STATES CHOI, INSOO, COLLEGE STATION, TX, UNITED STATES

77.73.75

| | NOMBER | KIND | DATE | |
|---------------------|----------------|------|----------|-----|
| | | | | |
| PATENT INFORMATION: | US 2002028208 | A1 | 20020307 | |
| APPLICATION INFO.: | US 1999-303510 | A1 | 19990430 | (9) |

MINERTO

NUMBER DATE -----

PRIORITY INFORMATION:

US 1998-83869P 19980501 (60)

DOCUMENT TYPE:

Utility

FILE SEGMENT:

APPLICATION

LEGAL REPRESENTATIVE: JOHN P WHITE, COOPER AND DUNHAM LLP, 1185 AVENUE OF THE

AMERICAS, NEW YORK, NY, 10036

NUMBER OF CLAIMS:

45

EXEMPLARY CLAIM:

NUMBER OF DRAWINGS:

13 Drawing Page(s)

LINE COUNT:

4890

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L20 ANSWER 3 OF 16 USPATFULL

ACCESSION NUMBER:

2002:16560 USPATFULL

TITLE:

Methods and compositions for inhibiting

adhesion by microorganisms

INVENTOR(S):

Doyle, Ron J., Louisville, KY, UNITED STATES Cowan, M. M., Cincinnati, OH, UNITED STATES

| | NUMBER | KIND | DATE |
|---------------------|---------------|------|-----------|
| | | | |
| PATENT INFORMATION: | US 2002009436 | A1 | 20020124_ |

APPLICATION INFO.: US 2000-750857

A1 20001229 (9)

NUMBER DATE -----

US 1999-173821P 19991230 (60) PRIORITY · INFORMATION:

DOCUMENT TYPE: Utility APPLICATION FILE SEGMENT:

LEGAL REPRESENTATIVE: MERCHANT & GOULD PC, P.O. BOX 2903, MINNEAPOLIS, MN,

55402-0903

NUMBER OF CLAIMS: 50 1

EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 13 Drawing Page(s)

2655 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L20 ANSWER 4 OF 16 USPATFULL

ACCESSION NUMBER: 2001:188693 USPATFULL

Peptide inhibitors of LFA-1/ICAM-1 interaction TITLE: Larson, Richard S., Albuquerque, NM, United States INVENTOR(S):

University of New Mexico Science & Technology PATENT ASSIGNEE(S):

Corporation (U.S. corporation)

KIND DATE NUMBER _____ PATENT INFORMATION:

US 2001034326 A1 20011025 US 2001-760599 A1 20010116 (9) APPLICATION INFO.:

Continuation-in-part of Ser. No. US 2000-483550, filed RELATED APPLN. INFO.:

on 14 Jan 2000, PENDING

Utility DOCUMENT TYPE: APPLICATION FILE SEGMENT:

Timothy S. Corder, VINSON & ELKINS L.L.P., 2300 First LEGAL REPRESENTATIVE:

City Tower, 1001 Fannin Street, Houston, TX, 77002-6760

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 3 Drawing Page(s)

LINE COUNT: 1270

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L20 ANSWER 5 OF 16 USPATFULL

2001:191256 USPATFULL ACCESSION NUMBER:

USPA1 and USPA2 antigens of Moraxella catarrhalis TITLE:

Hansen, Eric J., Plano, TX, United States Aebi, Christoph, Gasel, Switzerland INVENTOR(S):

Cope, Leslie D., Mesquite, TX, United States Maciver, Isobel, Cottage Grove, WI, United States Fiske, Michael J., Rochester, NY, United States Fredenburg, Ross A., Rochester, NY, United States

Board of Regents, The University of Texas, Austin, TX, PATENT ASSIGNEE(S):

United States (U.S. corporation)

American Cyanamid, Madison, NJ, United States (U.S.

corporation)

NUMBER KIND DATE ______

US 6310190 B1 20011030 US 1999-336447 19990621 PATENT INFORMATION: 19990621 (9) APPLICATION INFO.:

Continuation of Ser. No. WO 1997-US23930, filed on 19 RELATED APPLN. INFO.:

Dec 1997

NUMBER DATE -----US 1996-33598P 19961220 (60) PRIORITY INFORMATION:

Utility DOCUMENT TYPE: FILE SEGMENT:

GRANTED

PRIMARY EXAMINER: Jones, W. Gary PRIMARY EXAMINER: ASSISTANT EXAMINER: Soudaya, Jehanne LEGAL REPRESENTATIVE: Fulbright & Jaworski

2 NUMBER OF CLAIMS: 1 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 28 Drawing Figure(s); 17 Drawing Page(s)

LINE COUNT: 4794

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L20 ANSWER 6 OF 16 USPATFULL

ACCESSION NUMBER: 2001:178635 USPATFULL

TITLE: Anti-microbial-adhesion fraction derived from

vaccinium

INVENTOR(S): Ofek, Itzhak, Givataun, Israel

Weiss, Ervin, Herzeliya, Israel Kashman, Yoel, Tel Aviv, Israel Goldhar, Janina, Tel Aviv, Israel Sharon, Nathan, Tel Aviv, Israel

PATENT ASSIGNEE(S): RAMOT-University Authority for Applied Research and

Industrial Development Ltd., Ramat-Aviv, Tel Aviv,

Israel (non-U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 6303125 B1 20011016 APPLICATION INFO.: US 1998-159626 19980924 (9)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1996-772021, filed

on 19 Dec 1996, now patented, Pat. No. US 5840322

DOCUMENT TYPE: Utility FILE SEGMENT: GRANTED

PRIMARY EXAMINER: Celsa, Bennett
LEGAL REPRESENTATIVE: Kohn & Associates

NUMBER OF CLAIMS: 3 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 11 Drawing Figure(s); 8 Drawing Page(s)

LINE COUNT: 1574

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L20 ANSWER 7 OF 16 USPATFULL

ACCESSION NUMBER: 2001:158463 USPATFULL

TITLE: p62 polypeptides, related polypeptides, and uses

therefor

INVENTOR(S): Shin, Jaekyoon, Westwood, MA, United States

Joung, Insil, Boston, MA, United States

Vadlamudi, Ratna K., Norwood, MA, United States Strominger, Jack L., Lexington, MA, United States

PATENT ASSIGNEE(S): Dana-Farber Cancer Institute, Boston, MA, United States

(U.S. corporation)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1995-574959, filed on 19

Dec 1995, now patented, Pat. No. US 5962224

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Wang, Andrew

LEGAL REPRESENTATIVE: Lahive & Cockfield, LLP

NUMBER OF CLAIMS: 8 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 61 Drawing Figure(s); 50 Drawing Page(s)

LINE COUNT: 3156

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L20 ANSWER 8 OF 16 USPATFULL

ACCESSION NUMBER: 2000:117767 USPATFULL

TITLE: Inhibitors of bacterial sialidase

INVENTOR(S): Luo, Ming, Birmingham, AL, United States

White, Clinton L., Birmingham, AL, United States

PATENT ASSIGNEE(S): University of Alabama, Birmingham, AL, United States

(U.S. corporation)

NUMBER KIND DATE

_____ PATENT INFORMATION: US 6114386 20000905 APPLICATION INFO.: US 1997-950235 19971014 (8)

RELATED APPLN. INFO.: Division of Ser. No. US 1995-433290, filed on 3 May

1995, now patented, Pat. No. US 5714509

DOCUMENT TYPE: Utility

FILE SEGMENT: Granted
PRIMARY EXAMINER: Dentz, Bernard

LEGAL REPRESENTATIVE: Needle & Rosenberg, P.C.

NUMBER OF CLAIMS: 6 EXEMPLARY CLAIM: 1

8 Drawing Figure(s); 8 Drawing Page(s) NUMBER OF DRAWINGS:

2056 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L20 ANSWER 9 OF 16 USPATFULL

ACCESSION NUMBER: 1999:146558 USPATFULL

Methods of inhibiting bacterial sialidase TITLE: INVENTOR(S): Luo, Ming, Birmingham, AL, United States

The University of Alabama, Birmingham, AL, United PATENT ASSIGNEE(S):

States (U.S. corporation)

KIND DATE NUMBER _____

PATENT INFORMATION: US 5985859 19991116 APPLICATION INFO.: US 1995-485380 19950607

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1994-227549, filed

on 14 Apr 1994, now patented, Pat. No. US 5453533

DOCUMENT TYPE: Utility Granted FILE SEGMENT: PRIMARY EXAMINER: Geist, Gary
ASSISTANT EXAMINER: Keys, Rosalynd A.

LEGAL REPRESENTATIVE: Needle & Rosenberg, P.C.

NUMBER OF CLAIMS: 11 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 3 Drawing Figure(s); 4 Drawing Page(s)

LINE COUNT: 1620

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L20 ANSWER 10 OF 16 USPATFULL

ACCESSION NUMBER: 1999:121127 USPATFULL

Isolated DNA encoding p62 polypeptides and uses TITLE:

therefor

Shin, Jaekyoon, Westwood, MA, United States INVENTOR(S):

Joung, Insil, Boston, MA, United States

Vadlamudi, Ratna K., Norwood, MA, United States Strominger, Jack L., Lexington, MA, United States

PATENT ASSIGNEE(S): Dana-Farber Cancer Institute, Boston, MA, United States

(U.S. corporation)

NUMBER KIND DATE ______

PATENT INFORMATION: US 5962224 19991005 US 1995-574959 19951219 19951219 (8) APPLICATION INFO.:

DOCUMENT TYPE: Utility FILE SEGMENT: Granted

PRIMARY EXAMINER:

PRIMARY EXAMINER: Elliott, George C.
ASSISTANT EXAMINER: Wang, Andrew
LEGAL REPRESENTATIVE: Mandragouras, Amy E.Lahive & Cockfield, LLP

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

32 Drawing Figure(s); 52 Drawing Page(s) NUMBER OF DRAWINGS:

4194 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L20 ANSWER 11 OF 16 USPATFULL

ACCESSION NUMBER: 1999:59136 USPATFULL TITLE: DNA binding protein S1-3

INVENTOR(S): INVENTOR(S): Lecka-Czernik, Beata, Little Rock, AR, United States
PATENT ASSIGNEE(S): University of Arkansas, Little Rock, AR, United States

(U.S. corporation)

NUMBER KIND DATE •••••

PATENT INFORMATION: APPLICATION INFO.: US 5905146 19990518 US 1996-616857 19960315 19960315 (8)

DOCUMENT TYPE: Utility FILE SEGMENT: Granted

FILE SEGMENT:

PRIMARY EXAMINER:

ASSISTANT EXAMINER:

LEGAL REPRESENTATIVE:

Adler, Benjamin Aaron

NUMBER OF CLAIMS: EXEMPLARY CLAIM: 10

NUMBER OF DRAWINGS: 14 Drawing Figure(s); 19 Drawing Page(s) LINE COUNT: 3236

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L20 ANSWER 12 OF 16 USPATFULL

ACCESSION NUMBER: 1998:147050 USPATFULL

TITLE: Anti-oral-microbial adhesion fraction derived

from vaccinium

INVENTOR(S): Weiss, Ervin, Herzeliya, Israel

Ofek, Itzhak, Givataun, Israel Kashman, Yoel, Tel Aviv, Israel Goldhar, Janina, Tel Aviv, Israel Sharon, Nathan, Tel Aviv, Israel

PATENT ASSIGNEE(S): Ramot-University Authority For Applied Research &

Industrial Devel. Ltd., Israel (non-U.S. corporation)

KIND NUMBER DATE ______

PATENT INFORMATION: US 5840322
APPLICATION INFO.: US 1996-772021 19981124 19961219 (8)

DOCUMENT TYPE: Utility FILE SEGMENT: Granted
PRIMARY EXAMINER: Levy, Neil S.
LEGAL REPRESENTATIVE: Kohn & Associates

NUMBER OF CLAIMS: EXEMPLARY CLAIM: 10 1

NUMBER OF DRAWINGS: 10 Drawing Figure(s); 7 Drawing Page(s) LINE COUNT: 1370

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L20 ANSWER 13 OF 16 USPATFULL

ACCESSION NUMBER: 1998:12050 USPATFULL

TITLE: Inhibitors of bacterial sialidase and methods of making

and using the same

INVENTOR(S): Luo, Ming, Birmingham, AL, United States

> White, Clinton L., Birmingham, AL, United States The University of Alabama, Birmingham, AL, United

PATENT ASSIGNEE(S): States (U.S. corporation)

NUMBER KIND DATE ______

PATENT INFORMATION: APPLICATION INFO.: US 5714509 19980203 US 1995-433290 19950503 (8)

DOCUMENT TYPE: Utility FILE SEGMENT: Granted

PRIMARY EXAMINER: Granted

Dentz, Bernard

LEGAL REPRESENTATIVE: Needle & Rosenberg, P.C.

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 8 Drawing Figure(s); 8 Drawing Page(s)

LINE COUNT: 2315

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L20 ANSWER 14 OF 16 USPATFULL

97:51973 USPATFULL ACCESSION NUMBER:

Peptide mediated enhancement of thrombolysis methods TITLE:

and compositions

14

Lawrence, Daniel A., Ann Arbor, MI, United States INVENTOR(S):

Ginsburg, David, Ann Arbor, MI, United States

Shore, Joseph D., Grosse Point Farms, MI, United States

Fay, William P., Ann Arbor, MI, United States Olson, Steven T., Chicago, IL, United States

Francis-Chmura, Ann Marie, Warren, MI, United States

Eitzman, Daniel T., Ypsilanti, MI, United States

Paielli, Dell, Wyandotte, MI, United States

The Regents of the University of Michigan, Ann Arbor, PATENT ASSIGNEE(S):

MI, United States (U.S. corporation)

Henry Ford Health System, Detroit, MI, United States

(U.S. corporation)

NUMBER KIND DATE ______

PATENT INFORMATION:

US 5639726 US 1994-315461 19970617

APPLICATION INFO.:

Utility

19940930 (8)

DOCUMENT TYPE: FILE SEGMENT:

Granted

PRIMARY EXAMINER: Davenport, Avis M.

LEGAL REPRESENTATIVE: Arnold, White & Durkee

NUMBER OF CLAIMS: 59 EXEMPLARY CLAIM:

1

NUMBER OF DRAWINGS: 13 Drawing Figure(s); 10 Drawing Page(s)

LINE COUNT:

4817

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L20 ANSWER 15 OF 16 USPATFULL

ACCESSION NUMBER:

96:111346 USPATFULL

TITLE: INVENTOR(S): B7IG fusion protein

Linsley, Peter S., Seattle, WA, United States Ledbetter, Jeffrey A., Seattle, WA, United States

Damle, Nitin K., Renton, WA, United States Brady, William, Bothell, WA, United States

PATENT ASSIGNEE(S):

Bristol-Myers Squibb Co., Seattle, WA, United States

(U.S. corporation)

NUMBER KIND DATE -----

PATENT INFORMATION:

19961203

APPLICATION INFO.:

US 5580756 US 1994-219518

19940329 (8)

RELATED APPLN. INFO.:

Division of Ser. No. US 1991-722101, filed on 27 Jun 1991 which is a continuation-in-part of Ser. No. US 1990-547980, filed on 2 Jul 1990, now abandoned which is a continuation-in-part of Ser. No. US 1990-498949,

filed on 26 Mar 1990, now abandoned

DOCUMENT TYPE:

Utility

FILE SEGMENT:

Granted

PRIMARY EXAMINER:

Adams, Donald E.

LEGAL REPRESENTATIVE:

Merchant, Gould, Smith, Edell, Welter & Schmidt

NUMBER OF CLAIMS:

EXEMPLARY CLAIM:

19 Drawing Figure(s); 19 Drawing Page(s)

NUMBER OF DRAWINGS: LINE COUNT:

2405

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2C ANSWER 16 OF 16 USPATFULL

ACCESSION NUMBER: 96:46143 USPATFULL TITLE: CD28IG fusion protein

INVENTOR(S): Linsley, Peter S., Seattle, WA, United States

Ledbetter, Jeffrey A., Seattle, WA, United States

Damle, Nitin K., Renton, WA, United States Brady, William, Bothell, WA, United States

PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, Seattle, WA, United

States (U.S. corporation)

NUMBER KIND DATE
-----T INFORMATION: US 5521288 19960528

PATENT INFORMATION: US 5521288 19960528 APPLICATION INFO.: US 1994-219116 19940329 (8)

RELATED APPLN. INFO.: Division of Ser. No. US 1991-722101, filed on 27 Jun

1991, now abandoned which is a continuation-in-part of Ser. No. US 1990-547980, filed on 2 Jul 1990, now abandoned which is a continuation-in-part of Ser. No. US 1990-498949, filed on 26 Mar 1990, now abandoned

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted

PRIMARY EXAMINER: Adams, Donald E.

LEGAL REPRESENTATIVE: Merchant, Gould, Smith, Edell, Welter & Schmidt

NUMBER OF CLAIMS: 2 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 23 Drawing Figure(s); 19 Drawing Page(s)

LINE COUNT: 2425

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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|--------------------------|----------------------------------------------|--------------|------------------------|--|--|--|
| DB = USPT, PG | DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=OR | | | | | |
| <u>L21</u> | L19 and prokaryote | 36 | <u>L21</u> | | | |
| <u>L20</u> | L19 and procaryote | 0 | <u>L20</u> | | | |
| <u>L19</u> | L17 and asparaginase | 105 | <u>L19</u> | | | |
| <u>L18</u> | L17 and enzym? | 1277 | <u>L18</u> | | | |
| <u>L17</u> | L16 and microorganism | 1853 | <u>L17</u> | | | |
| <u>L16</u> | L15 and 114 | 14985 | <u>L16</u> | | | |
| <u>L15</u> | inhibiting | 208066 | <u>L15</u> | | | |
| <u>L14</u> | adhesion | 361233 | <u>L14</u> | | | |
| <u>L13</u> | NPM/B23 | 0 | <u>L13</u> | | | |
| <u> 12</u> | L9 and NPM/B23 | 0 | 112 | | | |
| <u>L11</u> | L9 and nucleophosmin | 9 | <u>L11</u> | | | |
| <u>L10</u> | L9 and nuclear | 41 | <u>L10</u> | | | |
| <u>L9</u> | L7 and eukaryot? | 358 | <u>L9</u> | | | |
| <u>L8</u> | L7 eukaryot? | 12545 | <u>L8</u> | | | |
| <u>L7</u> | L2 and streptococcus | 10449 | <u>L7</u> | | | |
| <u>L6</u> | L5 and streptococc? | 13 | <u>L6</u> | | | |
| <u>L5</u> | L4 and eukaryot? | 644 | <u>L5</u> | | | |
| <u>L4</u> | L3 and target? | 7054 | <u> </u> | | | |
| <u>L3</u> | L2 and nuclear | 65554 | <u>L3</u> <u>L2</u> | | | |
| <u>L2</u> | protein (1W) H | 2829695 | | | | |
| <u>L1</u> | protein (2W) H | 2830467 | <u>L1</u> | | | |
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| | Freeform Search | | | | |
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☐ 1. Document ID: US 20020061834 A1

L21: Entry 1 of 36

File: PGPB

May 23, 2002

PGPUB-DOCUMENT-NUMBER: 20020061834

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020061834 A1

TITLE: Human G-protein Chemokine receptor (CCR5) HDGNR10

PUBLICATION-DATE: May 23, 2002

INVENTOR-INFORMATION:

RULE-47 STATE COUNTRY CITY NAME Laytonsville MD ŲS Rosen, Craig A. US Rockville MD Roschke, Viktor US Sunnyvale CA Li, Yi US Olney MD Ruben, Steven M.

US-CL-CURRENT: 514/1; 435/320.1, 435/325, 435/69.1, 530/350, 536/23.5

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KANC Draw Desc Image

☐ 2. Document ID: US 20020061567 A1

L21: Entry 2 of 36

File: PGPB

May 23, 2002

PGPUB-DOCUMENT-NUMBER: 20020061567

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020061567 A1

TITLE: Novel nucleic acids and polypeptides

PUBLICATION-DATE: May 23, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|--------------------|-------------|-------|---------|---------|
| Tang, Y. Tom | San Jose | CA | US | |
| Liu, Chenghua | San Jose | CA | US | |
| Zhou, Ping | Cupertino | CA | US | |
| Asundi, Vinod | Foster City | CA | US | |
| Ren, Feiyan | Cupertino | CA | US | |
| Zhang, Jie | Campbell | CA | US | |
| Zhao, Qing A. | San Jose | CA | US | |
| Xue, Aidong J. | Sunnyvale | CA | US | |
| Goodrich, Ryle | San Jose | CA | US | |
| Wehrman, Tom | Stanford | CA | US | |
| Drmanac, Radoje T. | Palo Alto | CA | US | |

US-CL-CURRENT: 435/183; 435/320.1, 435/325, 435/69.1, 536/23.2

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw Desc Image

☐ 3. Document ID: US 20020061521 A1

L21: Entry 3 of 36

File: PGPB

May 23, 2002

PGPUB-DOCUMENT-NUMBER: 20020061521

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020061521 A1

TITLE: Nucleic acids, proteins, and antibodies

PUBLICATION-DATE: May 23, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Rosen, Craig A. Laytonsville MD US
Ruben, Steven M. Olney MD US
Barash, Steven C. Rockville MD US

US-CL-CURRENT: 435/6; 435/69.1, 514/2, 530/300, 536/23.1

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMIC Draw Desc Image

4. Document ID: US 20020055627 A1

L21: Entry 4 of 36

File: PGPB

May 9, 2002

PGPUB-DOCUMENT-NUMBER: 20020055627

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020055627 A1

TITLE: Nucleic acids, proteins and antibodies

PUBLICATION-DATE: May 9, 2002

INVENTOR - INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Rosen, Craig A. Laytonsville MD US Ruben, Steven M. Olney MD US

US-CL-CURRENT: $\underline{536}/\underline{23.5}$; $\underline{435}/\underline{320.1}$, $\underline{435}/\underline{325}$, $\underline{435}/\underline{7.2}$, $\underline{530}/\underline{324}$, $\underline{530}/\underline{387.9}$

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KMIC | Draw Desc | Image |

☐ 5. Document ID: US 20020055142 A1

L21: Entry 5 of 36 File: PGPB May 9, 2002

PGPUB-DOCUMENT-NUMBER: 20020055142

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020055142 A1

TITLE: Major intrinsic protein (MIP)-like polynucleotides, polypeptides, and

antibodies

PUBLICATION-DATE: May 9, 2002

INVENTOR - INFORMATION:

CITY STATE COUNTRY RULE-47 NAME

Ruben, Steven A. US Olney MD Ni, Jian Germantown US

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 435/6, 435/7.2, 530/324, 530/387.9,

536/23.5

Full Title Citation Front Review Classification Date Reference Sequences Attachments KMC Draw Desc Image

☐ 6. Document ID: US 20020052308 A1

L21: Entry 6 of 36 File: PGPB May 2, 2002

PGPUB-DOCUMENT-NUMBER: 20020052308

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020052308 A1

TITLE: Nucleic acids, proteins and antibodies

PUBLICATION-DATE: May 2, 2002

INVENTOR - INFORMATION:

COUNTRY RULE-47 NAME CITY STATE

Laytonsville MD US Rosen, Craig A. MD US Ruben, Steven M. Olney

US-CL-CURRENT: 514/1; 435/183, 435/320.1, 435/325, 435/6, 435/69.1, 435/7.1, 530/350,

536/23.1

Full Title Citation Front Review Classification Date Reference Sequences Attachments KMC Draw Desc Image

7. Document ID: US 20020051984 A1

May 2, 2002 L21: Entry 7 of 36 File: PGPB

PGPUB-DOCUMENT-NUMBER: 20020051984

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020051984 A1

TITLE: Kringle domain-containing polynucleotides, polypeptides, and antibodies

PUBLICATION-DATE: May 2, 2002

INVENTOR - INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Germantown MD US Ni, Jian Moore, Paul A. Germantown MD US MD US Ruben, Steven M. Olney

US-CL-CURRENT: $435/\underline{6}$; $435/\underline{183}$, $435/\underline{69.1}$, $435/\underline{7.1}$, $514/\underline{12}$, $514/\underline{44}$, $530/\underline{350}$, $536/\underline{23.1}$

Full Title Citation Front Review Classification Date Reference Sequences Attachments

MMC Draw Desc Image

8. Document ID: US 20020048786 A1

L21: Entry 8 of 36

File: PGPB

Apr 25, 2002

PGPUB-DOCUMENT-NUMBER: 20020048786

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020048786 A1

TITLE: Human G-protein Chemokine Receptor HDGNR10

PUBLICATION-DATE: April 25, 2002

INVENTOR - INFORMATION:

COUNTRY RULE-47 STATE CITY NAME

US MD Laytonsville Rosen, Craig A. US Rockville MD Roschke, Viktor US Sunnyvale CA Li, Yi MD US Ruben, Steven M. Olney

US-CL-CURRENT: 435/69.1; 424/130.1, 435/325, 435/7.2, 514/12, 536/23.5

Full Title Citation Front Review Classification Date Reference Sequences Attachments

1000C Draw Desc Image

☐ 9. Document ID: US 20020044941 A1

L21: Entry 9 of 36

File: PGPB

Apr 18, 2002

PGPUB-DOCUMENT-NUMBER: 20020044941

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020044941 A1

TITLE: Nucleic acids, proteins and antibodies

PUBLICATION-DATE: April 18, 2002

INVENTOR-INFORMATION:

COUNTRY RULE-47 CITY STATE NAME

US Rosen, Craiq A. Laytonsville MD US MD Ruben, Steven M. Olney

US-CL-CURRENT: 424/184.1; 435/183, 435/320.1, 435/325, 435/6, 435/69.1, 435/7.1,

514/44, 536/23.1

Full Title Citation Front Review Classification Date Reference Sequences Attachments

RAMC Draw Desc Image

☐ 10. Document ID: US 20020042386 A1

L21: Entry 10 of 36

File: PGPB

Apr 11, 2002

PGPUB-DOCUMENT-NUMBER: 20020042386

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020042386 A1

TITLE: Nucleic acids, proteins, and antibodies

PUBLICATION-DATE: April 11, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Rosen, Craig A. Laytonsville MD US Ruben, Steven M. Olney MD US Barash, Steven C. Rockville MD US

US-CL-CURRENT: 514/44; 435/325, 435/6, 435/69.1, 536/23.1

| Full Title Citation Front Review Class | nication Date Reference Sequences | Attachments | KMAC Drawn Desc Image |
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☐ 11. Document ID: US 20020042372 A1

L21: Entry 11 of 36

File: PGPB

Apr 11, 2002

PGPUB-DOCUMENT-NUMBER: 20020042372

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020042372 A1

TITLE: Stanniocalcin polynucleotides, polypeptides, and methods based thereon

PUBLICATION-DATE: April 11, 2002

INVENTOR-INFORMATION:

RULE-47 COUNTRY STATE CITY NAME US Gaithersburg MD Olsen, Henrik S. ΒE Brussels Zhang, Ke-Zhou FI Helsinki Lindsberg, Perttu FΙ Helsinki Tatlisumak, Turgut FI Vantaa Kaste, Markku FI Helsinki Andersson, Leif C.

US-CL-CURRENT: 514/12; 424/145.1, 530/388.24

Full Title Criation Front Review Classification Date Reference Sequences Attachments

1000C Draw Desc Image

☐ 12. Document ID: US 20020042096 A1

L21: Entry 12 of 36

File: PGPB

Apr 11, 2002

PGPUB-DOCUMENT-NUMBER: 20020042096

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020042096 A1

TITLE: Nucleic acids, proteins, and antibodies

PUBLICATION-DATE: April 11, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Rosen, Craig A. Laytonsville MD US Ruben, Steven M. Olney MD US Barash, Steven C. Rockville MD US

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 536/23.2

Full Title Crtation Front Review Classification Date Reference Sequences Attachments

- □ 13. Document ID: US 20020039764 A1

L21: Entry 13 of 36 File: PGPB

Apr 4, 2002

PGPUB-DOCUMENT-NUMBER: 20020039764

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020039764 A1

TITLE: Nucleic, acids, proteins, and antibodies

PUBLICATION-DATE: April 4, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Rosen, Craig A. Laytonsville MD US
Ruben, Steven M. Olney MD US

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 536/23.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | 13MIC | Draw Desc | Image |

☐ 14. Document ID: US 20020037549 A1

L21: Entry 14 of 36 File: PGPB Mar 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020037549

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020037549 A1

TITLE: ABC transport polynucleotides, polypeptides, and antibodies

PUBLICATION-DATE: March 28, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Ruben, Steven M. Olney MD US
Ni, Jian Germantown MD US
Moore, Paul A. Germantown MD US

US-CL-CURRENT: 435/69.1; 435/183, 435/325, 435/6, 435/7.1, 536/23.1

Full Title Citation Front Review Classification Date Reference Sequences Attachments (10mlC Draw Desc Image)

☐ 15. Document ID: US 20020037523 A1

L21: Entry 15 of 36 File: PGPB Mar 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020037523

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020037523 A1

TITLE: IL-6-like polynucleotides, polypeptides, and antibodies

PUBLICATION-DATE: March 28, 2002

INVENTOR-INFORMATION:

RULE-47

NAME CITY STATE COUNTRY

Ruben, Steven M. Olney MD US Shi, Yanggu Gaithersburg MD US

US-CL-CURRENT: 435/6; 424/85.2, 435/320.1, 435/325, 435/69.52, 435/7.1, 530/351, 536/23.5

Full Title Citation Front Review Classification Date Reference Sequences Attachments KMC Draw Desc Image

☐ 16. Document ID: US 20020031508 A1

L21: Entry 16 of 36 File: PGPB Mar 14, 2002

PGPUB-DOCUMENT-NUMBER: 20020031508

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020031508 A1

TITLE: Methods for diagnosing and treating hemostatic disorders by modulating

P-selectin activity

PUBLICATION-DATE: March 14, 2002

INVENTOR - INFORMATION:

RULE-47 STATE COUNTRY CITY NAME US Wellesley MA Wagner, Denisa D. US Jamaica Plain MA Andre, Patrick US Brookline MA Hartwell, Daging W. US Jamaica Plain MA Hrachovinova, Ingrid

US-CL-CURRENT: 424/94.63; 424/145.1, 514/12

Full Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | 13600 | Drava Desc | Image

☐ 17. Document ID: US 20020028449 A1

L21: Entry 17 of 36 File: PGPB Mar 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020028449

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020028449 A1

TITLE: 26 Human secreted proteins

PUBLICATION-DATE: March 7, 2002

INVENTOR - INFORMATION:

| NAME | CITY | STATE | COUNTRY US | RULE-47 |
|-----------------------|---------------|-------|---------------|---------|
| Ruben, Steven M. | Olney | MD | | |
| Birse, Charles E. | North Potomac | MD | US | |
| Duan, Roxanne D. | Bethesda | MD | US | |
| Soppet, Daniel R. | Centreville | VA | US | |
| Rosen, Craig A. | Laytonsville | MD | US | |
| Shi, Yanggu | Gaithersburg | MD | US | |
| LaFleur, David W. | Washington | DC | US | |
| Olsen, Henrik | Gaithersburg | MD | US | |
| Ebner, Reinhard | Gaithersburg | MD | US | |
| Florence, Kimberly A. | Rockville | MD | US | |
| Ni, Jian | Rockville | MD | ບຣ | |
| Young, Paul | Gaithersburg | MD | US | |

US-CL-CURRENT: $\frac{435}{6}$; $\frac{435}{183}$, $\frac{435}{69.1}$, $\frac{530}{388.1}$, $\frac{536}{23.1}$

Full Title Citation Front Review Classification Date Reference Sequences Attachments

☐ 18. Document ID: US 20020026040 A1

L21: Entry 18 of 36

File: PGPB

Feb 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020026040

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020026040 A1

TITLE: 49 human secreted proteins

PUBLICATION-DATE: February 28, 2002

INVENTOR - INFORMATION:

| TIAADMIDIK TIATORRATE TOOL | | | ootnamn. | DITT 13 4 7 |
|----------------------------|---------------|-------|----------|-------------|
| NAME | CITY | STATE | COUNTRY | RULE-47 |
| Moore, Paul A. | Germantown | MD | US | |
| Ruben, Steven M. | Olney | MD | US | |
| Olsen, Henrik S. | Gaithersburg | MD | US | |
| Shi, Yanggu | Gaithersburg | MD | US | |
| Rosen, Craig A. | Laytonsville | MD | US | |
| Florence, Kimberly A. | Rockville | MD | us | |
| Soppet, Daniel R. | Centreville | VA | US | |
| LaFleur, David W. | Washington | DC | US | |
| Endress, Gregory A. | Potomac | MD | US | |
| Ebner, Reinhard | Gaithersburg | MD | US | |
| Komatsoulis, George | Silver Spring | MD | US | |
| Duan, Roxanne D. | Bethesda | MD | US | |
| | | | | |

US-CL-CURRENT: 536/23.1; 435/6, 530/300

Full Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | 13MIC | Draw Desc | Image |

☐ 19. Document ID: US 20020025553 A1

L21: Entry 19 of 36

File: PGPB

Feb 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020025553

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020025553 A1

TITLE: Transforming growth factor alpha HIII

PUBLICATION-DATE: February 28, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Wei, Ying-Fei

Berkeley CA US

US-CL-CURRENT: $\frac{435}{69.1}$; $\frac{435}{325}$, $\frac{435}{7.1}$, $\frac{530}{399}$, $\frac{536}{23.5}$

Full Title Citation Front Review Classification Date Reference Sequences Attachments NMC Draw Desc Image

☐ 20. Document ID: US 20020012966 A1

L21: Entry 20 of 36

File: PGPB

Jan 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020012966

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020012966 A1

TITLE: 18 Human secreted proteins

PUBLICATION-DATE: January 31, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|-------------------|--------------|-------|---------|---------|
| Shi, Yanggu | Gaithersburg | MD | US | |
| Young, Paul E. | Gaithersburg | MD | US | |
| Ebner, Reinhard | Gaithersburg | MD | US | |
| Soppet, Daniel R. | Centreville | VA | US | |
| Ruben, Steven M. | Olney | MD | US | |

US-CL-CURRENT: $\frac{435}{69.1}$; $\frac{435}{183}$, $\frac{435}{325}$, $\frac{530}{350}$, $\frac{536}{23.1}$

Full Title Citation Front Review Classification Date Reference Sequences Attachments

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☐ 21. Document ID: US 20020009786 A1

L21: Entry 21 of 36

File: PGPB

Jan 24, 2002

PGPUB-DOCUMENT-NUMBER: 20020009786

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020009786 A1

TITLE: Novel nucleic acids and polypeptides

PUBLICATION-DATE: January 24, 2002

INVENTOR - INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|--------------------|-------------|-------|---------|---------|
| Tang, Y. Tom | San Jose | CA | US | |
| Zhou, Ping | Cupertino | CA | US | |
| Goodrich, Ryle | San Jose | CA | US | |
| Liu, Chenghua | San Jose | CA | US | |
| Asundi, Vinod | Foster City | CA | US | |
| Xue, Aidong J. | Sunnyvale | CA | US | |
| Zhang, Jie | Campbell | CA | US | |
| Zhao, Qing A. | San Jose | CA | US | |
| Ren, Feiyan | Cupertino | CA | US | |
| Drmanac, Radoje T. | Palo Alto | CA | US | |

US-CL-CURRENT: $\frac{435}{183}$; $\frac{435}{325}$, $\frac{435}{69.1}$, $\frac{536}{23.2}$

Full Title Citation Front Review Classification Date Reference Sequences Attachments

10MC Draw Desc Image

☐ 22. Document ID: US 20020009436 A1

L21: Entry 22 of 36

File: PGPB

Jan 24, 2002

PGPUB-DOCUMENT-NUMBER: 20020009436

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020009436 A1

TITLE: Methods and compositions for inhibiting adhesion by microorganisms

PUBLICATION-DATE: January 24, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Doyle, Ron J. Louisville KY US Cowan, M. M. Cincinnati OH US

US-CL-CURRENT: 424/94.6; 424/94.63

Full Title Citation Front Review Classification Date Reference Sequences Attachments

1000C Draw Desc Image

☐ 23. Document ID: US 20020006640 A1

L21: Entry 23 of 36

File: PGPB

Jan 17, 2002

PGPUB-DOCUMENT-NUMBER: 20020006640

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020006640 A1

TITLE: Uteroglobin-like polynucleotides, polypeptides, and antibodies

PUBLICATION-DATE: January 17, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Ni, Jian

Germantown.

MD

US

Ruben, Steven M.

Olney

MD

US

US-CL-CURRENT: $\frac{435}{69.1}$; $\frac{435}{325}$, $\frac{435}{6}$, $\frac{435}{7.1}$, $\frac{514}{44}$, $\frac{530}{350}$, $\frac{536}{23.5}$

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KMC Draw Desc Image

24. Document ID: US 20020004489 A1

L21: Entry 24 of 36

File: PGPB

Jan 10, 2002

PGPUB-DOCUMENT-NUMBER: 20020004489

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020004489 A1

TITLE: Retinoid receptor interacting polynucleotides, polypeptides, and antibodies

PUBLICATION-DATE: January 10, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Shi, Yanggu

01----

MD

US

Ruben, Steven M.

Olney

MD

US

US-CL-CURRENT: 514/44; 435/325, 435/69.1, 530/350, 530/388.22, 536/23.5

Gaithersburg

Full Title Citation Front Review Classification Date Reference Sequences Attachments

10MC Draw Desc Image

25. Document ID: US 20010021700 A1

L21: Entry 25 of 36

File: PGPB

Sep 13, 2001

PGPUB-DOCUMENT-NUMBER: 20010021700

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010021700 A1

TITLE: 49 human secreted proteins

PUBLICATION-DATE: September 13, 2001

| INVENTOR-INFORMATION: | | | | |
|-----------------------|---------------|-------|---------|---------|
| NAME | CITY | STATE | COUNTRY | RULE-47 |
| Moore, Paul A. | Germantown | MD | US | |
| Ruben, Steven M. | Oley | MD | US | |
| Olsen, Henrik S. | Gaithersburg | MD | US | |
| Shi, Yanggu | Gaithersburg | MD | US | |
| Rosen, Craig A. | Laytonsville | MD | US | |
| Florence, Kimberly A. | Rockville | MD | US | |
| Soppet, Daniel R. | Centreville | VA | US | |
| Lafleur, David W. | Washington | DC | US | |
| Endress, Gregory A. | Potomac | MD | US | |
| Ebner, Reinhard | Gaithersburg | MD | US | |
| Komatsoulis, George | Silver Spring | MD | US | |
| Duan, Roxanne D. | Bethesda | MD | US | |

US-CL-CURRENT: 514/44; 435/320.1, 435/325, 435/69.1, 435/69.7, 435/7.1, 514/12, 530/350, 530/388.2, 536/23.5

Full Title Citation Front Review Classification Date Reference Sequences Attachments

10MC Draw Desc Image

☐ 26. Document ID: US 6391589 B1

L21: Entry 26 of 36

File: USPT

May 21, 2002

US-PAT-NO: 6391589

DOCUMENT-IDENTIFIER: US 6391589 B1

TITLE: Human chemokine beta-10 mutant polypeptides

DATE-ISSUED: May 21, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP | CODE | COUNTRY |
|----------------------|---------------|-------|-----|------|---------|
| | Gaithersburg | MD | | | |
| Olsen; Henrik S. | • | | | | |
| Li; Haodong | Gaithersburg | MD | | | |
| Adams; Mark D. | North Potomac | MD | | | |
| Gentz; Solange H. L. | Rockville | MD | | | |
| Alderson; Ralph | Gaithersburg | MD | | | |
| Li; Yuling | Germantown | MD | | | |
| Parmelee; David | Rockville | MD | | | |
| White; John R. | Coatsville | PA | | | |
| Appelbaum; Edward R. | Blue Bell | PA | | | |
| | | | | | |

US-CL-CURRENT: $\frac{435}{69.5}$; $\frac{424}{85.1}$, $\frac{435}{252.3}$, $\frac{435}{252.1}$, $\frac{435}{252.5}$, $\frac{435}{252.5}$, $\frac{435}{252.5}$, $\frac{435}{252.5}$, $\frac{435}{252.5}$, $\frac{435}{252.5}$ 435/71.1, $435/7\overline{1.2}$, $514/1\overline{2}$, 514/2 , 514/8, 530/324, 536/23.1, 536/23.5

Full Title Citation Front Review Classification Date Reference Sequences Attachments

MMC Draw Desc Image

☐ 27. Document ID: US 6358508 B1

L21: Entry 27 of 36

File: USPT

Mar 19, 2002

US-PAT-NO: 6358508

DOCUMENT-IDENTIFIER: US 6358508 B1

TITLE: Antibodies to human tumor necrosis factor receptor TR9

DATE-ISSUED: March 19, 2002

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Ni; Jian Rockville MD
Yu; Guo-Liang Berkeley CA
Fan; Ping Gaithersburg MD
Gentz; Reiner L. Rockville MD

US-CL-CURRENT: 424/139.1; 424/178.1, 530/387.9, 530/388.22, 530/389.1, 530/391.3,

530/391.7

Full Title Citation Front Review Classification Date Reference Sequences Attachments KWIC Draw Desc Image

☐ 28. Document ID: US 6323322 B1

L21: Entry 28 of 36 File: USPT Nov 27, 2001

US-PAT-NO: 6323322

DOCUMENT-IDENTIFIER: US 6323322 B1

TITLE: Single-chain antigen-binding proteins capable of glycosylation, production and

uses thereof

DATE-ISSUED: November 27, 2001

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Filpula; David Piscataway NJ
Wang; Maoliang E. Brunswick NJ
Shorr; Robert Edison NJ
Whitlow; Marc El Sobrante CA
Lee; Lihsyng S. Princeton Junction NJ

US-CL-CURRENT: 530/387.3; 530/391.3

Full Title Citation Front Review Classification Date Reference Sequences Attachments RMC Draw Desc Image

☐ 29. Document ID: US 6319493 B1

L21: Entry 29 of 36 File: USPT Nov 20, 2001

US-PAT-NO: 6319493

DOCUMENT-IDENTIFIER: US 6319493 B1

TITLE: Treatment of neoplastic disease with interleukin-10

DATE-ISSUED: November 20, 2001

INVENTOR-INFORMATION:

ZIP CODE COUNTRY CITY STATE NAME PTX Linda-a-velha Vieira; Paulo J. CA Palo Alto Moore; Kevin W. CA Sunnyvale de Waal Malefyt; Rene CA Los Altos de Vries; Jan E. Los Angeles CA Fluckiger; Anne-Catherine FRX Ecully Banchereau; Jacques

US-CL-CURRENT: 424/85.2; 514/12, 514/2, 514/8, 514/885

Full Title Citation Front Review Classification Date Reference Sequences Attachments KMAC Draws Describinge

☐ 30. Document ID: US 6156311 A

L21: Entry 30 of 36

File: USPT

Dec 5, 2000

36

US-PAT-NO: 6156311

DOCUMENT-IDENTIFIER: US 6156311 A

L19 and prokaryote

TITLE: Modulators of expression and function of LRP in alzheimer's disease

DATE-ISSUED: December 5, 2000

INVENTOR-INFORMATION:

COUNTRY ZIP CODE STATE CITY NAME MD Olney Strickland; Dudley K. MA Swampscott Hyman; Bradley T. MD Gaithersburg Kounnas; Maria Z. MA Boston Moir; Robert D. MA Canton Tanzi; Rudolph E.

US-CL-CURRENT: 424/130.1; 424/143.1, 424/152.1, 514/2

Full Title Criation Front Review Classification Date Reference Sequences Attachments

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☐ 21. Document ID: US 20020009786 A1

L21: Entry 21 of 36

File: PGPB

Jan 24, 2002

PGPUB-DOCUMENT-NUMBER: 20020009786

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020009786 A1

TITLE: Novel nucleic acids and polypeptides

PUBLICATION-DATE: January 24, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|--------------------|-------------|-------|---------|---------|
| Tang, Y. Tom | San Jose | CA | US | |
| Zhou, Ping | Cupertino | CA | US | |
| Goodrich, Ryle | San Jose | CA | US | |
| Liu, Chenghua | San Jose | CA | US | |
| Asundi, Vinod | Foster City | CA | US | |
| Xue, Aidong J. | Sunnyvale | CA | US | |
| Zhang, Jie | Campbell | CA | US | |
| Zhao, Qing A. | San Jose | CA | US | |
| Ren, Feiyan | Cupertino | CA | US | |
| Drmanac, Radoje T. | Palo Alto | CA | US | |

US-CL-CURRENT: 435/183; 435/325, 435/69.1, 536/23.2

Full Title Citation Front Review Classification Date Reference Sequences Attachments

1000C Drawl Desc Image

☐ 22. Document ID: US 20020009436 A1

L21: Entry 22 of 36

File: PGPB

Jan 24, 2002

PGPUB-DOCUMENT-NUMBER: 20020009436

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020009436 A1

TITLE: Methods and compositions for inhibiting adhesion by microorganisms

PUBLICATION-DATE: January 24, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Doyle, Ron J. Louisville KY US Cowan, M. M. Cincinnati OH US

US-CL-CURRENT: 424/94.6; 424/94.63

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KWWC Draw Desc Image

☐ 23. Document ID: US 20020006640 A1

L21: Entry 23 of 36

File: PGPB

Jan 17, 2002

PGPUB-DOCUMENT-NUMBER: 20020006640

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020006640 A1

TITLE: Uteroglobin-like polynucleotides, polypeptides, and antibodies

PUBLICATION-DATE: January 17, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Ni, Jian

Germantown

MD

US

Ruben, Steven M.

Olney

MD

US

US-CL-CURRENT: $\underline{435}/\underline{69.1}$; $\underline{435}/\underline{325}$, $\underline{435}/\underline{6}$, $\underline{435}/\underline{7.1}$, $\underline{514}/\underline{44}$, $\underline{530}/\underline{350}$, $\underline{536}/\underline{23.5}$

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KNMC Draw Desc Image

☐ 24. Document ID: US 20020004489 A1

L21: Entry 24 of 36

File: PGPB

Jan 10, 2002

PGPUB-DOCUMENT-NUMBER: 20020004489

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020004489 A1

TITLE: Retinoid receptor interacting polynucleotides, polypeptides, and antibodies

PUBLICATION-DATE: January 10, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY F

RULE-47

Shi, Yanggu

Ruben, Steven M.

Olney

MD MD US US

US-CL-CURRENT: 514/44; 435/325, 435/69.1, 530/350, 530/388.22, 536/23.5

Gaithersburg

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KMMC Draw Desc Image

☐ 25. Document ID: US 20010021700 A1

L21: Entry 25 of 36

File: PGPB

Sep 13, 2001

PGPUB-DOCUMENT-NUMBER: 20010021700

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010021700 A1

TITLE: 49 human secreted proteins

PUBLICATION-DATE: September 13, 2001

| INVENTOR-INFORMATION: | | | | |
|-----------------------|---------------|-------|---------|---------|
| NAME | CITY | STATE | COUNTRY | RULE-47 |
| Moore, Paul A. | Germantown | MD | US | |
| Ruben, Steven M. | Oley | MD | US | |
| Olsen, Henrik S. | Gaithersburg | MD | US | |
| Shi, Yanggu | Gaithersburg | MD | US | |
| Rosen, Craig A. | Laytonsville | MD | US | |
| Florence, Kimberly A. | Rockville | MD | US | |
| Soppet, Daniel R. | Centreville | VA | US | |
| Lafleur, David W. | Washington | DC | US | |
| Endress, Gregory A. | Potomac | MD | US | |
| Ebner, Reinhard | Gaithersburg | MD | US | |
| Komatsoulis, George | Silver Spring | MD | US | |
| Duan, Roxanne D. | Bethesda | MD | US | |

US-CL-CURRENT: $514/\underline{44}$; $435/\underline{320.1}$, $435/\underline{325}$, $435/\underline{69.1}$, $435/\underline{69.7}$, $435/\underline{7.1}$, $514/\underline{12}$, $530/\underline{350}$, $530/\underline{388.2}$, $536/\underline{23.5}$

Full Title Citation Front Review Classification Date Reference Sequences Attachments

EMMC Draw, Desc Image

☐ 26. Document ID: US 6391589 B1

L21: Entry 26 of 36

File: USPT

May 21, 2002

US-PAT-NO: 6391589

DOCUMENT-IDENTIFIER: US 6391589 B1

TITLE: Human chemokine beta-10 mutant polypeptides

DATE-ISSUED: May 21, 2002

INVENTOR-INFORMATION:

| THA FIATOK - THE OKERSTION: | | | | |
|-----------------------------|---------------|-------|----------|---------|
| NAME | CITY | STATE | ZIP CODE | COUNTRY |
| Olsen; Henrik S. | Gaithersburg | MD | | |
| Li; Haodong | Gaithersburg | MD | | |
| Adams; Mark D. | North Potomac | MD | | |
| Gentz; Solange H. L. | Rockville | MD | | |
| Alderson; Ralph | Gaithersburg | MD | | |
| Li; Yuling | Germantown | MD | | |
| Parmelee; David | Rockville | MD | | |
| White; John R. | Coatsville | PA | | |
| Appelbaum; Edward R. | Blue Bell | PA | | |
| | | | | |

US-CL-CURRENT: $\frac{435}{69.5}$; $\frac{424}{12}$, $\frac{85.1}{514}$, $\frac{435}{252.3}$, $\frac{435}{254.11}$, $\frac{435}{320.1}$, $\frac{435}{325}$, $\frac{435}{471}$, $\frac{435}{71.1}$, $\frac{435}{71.2}$, $\frac{514}{12}$, $\frac{514}{2}$, $\frac{530}{324}$, $\frac{536}{23.1}$, $\frac{536}{23.1}$, $\frac{536}{23.5}$

Full Title Citation Front Review Classification Date Reference Sequences Attachments

1000C Draw Desc Image

☐ 27. Document ID: US 6358508 B1

L21: Entry 27 of 36

File: USPT

Mar 19, 2002

US-PAT-NO: 6358508

DOCUMENT-IDENTIFIER: US 6358508 B1

TITLE: Antibodies to human tumor necrosis factor receptor TR9

DATE-ISSUED: March 19, 2002

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Ni; Jian Rockville MD
Yu; Guo-Liang Berkeley CA
Fan; Ping Gaithersburg MD
Gentz; Reiner L. Rockville MD

US-CL-CURRENT: 424/139.1; 424/178.1, 530/387.9, 530/388.22, 530/389.1, 530/391.3, 530/391.7

Full Title Citation Front Review Classification Date Reference Sequences Attachments KMIC Draw Desc Image

☐ 28. Document ID: US 6323322 B1

L21: Entry 28 of 36 File: USPT Nov 27, 2001

US-PAT-NO: 6323322

DOCUMENT-IDENTIFIER: US 6323322 B1

TITLE: Single-chain antigen-binding proteins capable of glycosylation, production and

uses thereof

DATE-ISSUED: November 27, 2001

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Filpula; David Piscataway NJ
Wang; Maoliang E. Brunswick NJ
Shorr; Robert Edison NJ
Whitlow; Marc El Sobrante CA
Lee; Lihsyng S. Princeton Junction NJ

US-CL-CURRENT: 530/387.3; 530/391.3

Full Title Citation Front Review Classification Date Reference Sequences Attachments KNIIC Draw Desc Image

☐ 29. Document ID: US 6319493 B1

L21: Entry 29 of 36 File: USPT Nov 20, 2001

US-PAT-NO: 6319493

DOCUMENT-IDENTIFIER: US 6319493 B1

TITLE: Treatment of neoplastic disease with interleukin-10

DATE-ISSUED: November 20, 2001

INVENTOR-INFORMATION:

ZIP CODE COUNTRY STATE CITY NAME PTX Linda-a-velha Vieira; Paulo J. Palo Alto CA Moore; Kevin W. CA Sunnyvale de Waal Malefyt; Rene CA Los Altos de Vries; Jan E. Los Angeles CA Fluckiger; Anne-Catherine FRX Ecully Banchereau; Jacques

US-CL-CURRENT: 424/85.2; 514/12, 514/2, 514/8, 514/885

Full Title Citation Front Review Classification Date Reference Sequences Attachments (MAC Draw Desc Image)

☐ 30. Document ID: US 6156311 A

L21: Entry 30 of 36

File: USPT

Dec 5, 2000

US-PAT-NO: 6156311

DOCUMENT-IDENTIFIER: US 6156311 A

TITLE: Modulators of expression and function of LRP in alzheimer's disease

DATE-ISSUED: December 5, 2000

INVENTOR-INFORMATION:

STATE ZIP CODE COUNTRY CITY NAME MD Strickland; Dudley K. Olney Swampscott MA Hyman; Bradley T. MD Gaithersburg Kounnas; Maria Z. Boston MA Moir; Robert D. MA Canton Tanzi; Rudolph E.

US-CL-CURRENT: 424/130.1; 424/143.1, 424/152.1, 514/2

Full Title Citation Front Review Classification Date Reference Sequences Attachments MMC Draw Desc Image

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TermsDocumentsL19 and prokaryote36

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Search Results - Record(s) 31 through 36 of 36 returned.

☐ 31. Document ID: US 6106823 A

L21: Entry 31 of 36

File: USPT

Aug 22, 2000

US-PAT-NO: 6106823

DOCUMENT-IDENTIFIER: US 6106823 A

TITLE: Treatment of neoplastic disease with interleukin-10

DATE-ISSUED: August 22, 2000

INVENTOR-INFORMATION:

COUNTRY ZIP CODE STATE CITY NAME

Palo Alto CA Vieira; Paulo J. CA Palo Alto Moore; Kevin W. CA Sunnyvale Malefyt; Rene de Waal CA Los Altos

de Vries; Jan E. Lyons

FRX Fluckiger; Anne-Catherine FRX Ecully Banchereau; Jacques

US-CL-CURRENT: 424/85.2; 514/12, 514/2, 514/8, 514/885, 530/351

Full | Title | Citation | Front | Review | Classification | Date | Reterence | Sequences | Attachments |

KimiC Draw Desc Image

☐ 32. Document ID: US 5959081 A

L21: Entry 32 of 36

File: USPT

Sep 28, 1999

US-PAT-NO: 5959081

DOCUMENT-IDENTIFIER: US 5959081 A

TITLE: Zinc binding LIM protein S2-6

DATE-ISSUED: September 28, 1999

INVENTOR-INFORMATION:

ZIP CODE COUNTRY STATE CITY NAME

72227 Little Rock AR Lecka-Czernik; Beata

US-CL-CURRENT: 530/358; 435/320.1, 435/325, 536/23.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments |

KMMC Draw Desc Image

☐ 33. Document ID: US 5905146 A

L21: Entry 33 of 36

File: USPT

May 18, 1999

KWMC Draw Desc Image

US-PAT-NO: 5905146

DOCUMENT-IDENTIFIER: US 5905146 A

TITLE: DNA binding protein S1-3

DATE-ISSUED: May 18, 1999

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Lecka-Czernik; Beata Little Rock AR

US-CL-CURRENT: $\underline{536}/\underline{23.5}$; $\underline{435}/\underline{252.3}$, $\underline{435}/\underline{320.1}$, $\underline{435}/\underline{325}$, $\underline{536}/\underline{24.31}$

Full Title Citation Front Review Classification Date Reference Sequences Attachments

☐ 34. Document ID: US 5703048 A

L21: Entry 34 of 36 File: USPT Dec 30, 1997

US-PAT-NO: 5703048

DOCUMENT-IDENTIFIER: US 5703048 A

TITLE: Protection against liver damage by HGF

DATE-ISSUED: December 30, 1997

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Roos; Filip Brisbane CA Schwall; Ralph Pacifica CA

US-CL-CURRENT: 514/12; 435/360, 514/2, 514/838, 514/893, 514/894, 530/350, 530/399

Full Title Citation Front Review Classification Date Reference Sequences Attachments KMIC Drain Desc Image

☐ 35. Document ID: US 5654404 A

L21: Entry 35 of 36 File: USPT Aug 5, 1997

US-PAT-NO: 5654404

DOCUMENT-IDENTIFIER: US 5654404 A

TITLE: Protection against liver damage by HGF

DATE-ISSUED: August 5, 1997

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Roos; Filip Brisbane CA Schwall; Ralph Pacifica CA

US-CL-CURRENT: 530/387.3; 424/134.1, 424/136.1, 424/178.1, 530/350

Full Title Citation Front Review Classification Date Reference Sequences Attachments 10MC Draw Desc Image

.

36. Document ID: US 5286654 A

L21: Entry 36 of 36

File: USPT

Feb 15, 1994

US-PAT-NO: 5286654

DOCUMENT-IDENTIFIER: US 5286654 A

TITLE: Detection and purification of activin polypeptide

DATE-ISSUED: February 15, 1994

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Cox; Edward T. Foster City CA
Mather; Jennie P. Millbrae CA
Sliwkowski; Mary B. San Carlos CA

Woodruff; Teresa K. Millbrae CA

US-CL-CURRENT: 436/501; 436/536, 530/388.22, 530/395, 530/413

Full Title Cdation Front Review Classification Date Reference Sequences Attachments

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Terms Documents

L19 and prokaryote 36

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Search Results - Record(s) 31 through 36 of 36 returned.

☐ 31. Document ID: US 6106823 A

L21: Entry 31 of 36

File: USPT

Aug 22, 2000

US-PAT-NO: 6106823

DOCUMENT-IDENTIFIER: US 6106823 A

TITLE: Treatment of neoplastic disease with interleukin-10

DATE-ISSUED: August 22, 2000

INVENTOR - INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Vieira; Paulo J. Palo Alto CA
Moore; Kevin W. Palo Alto CA
Malefyt; Rene de Waal Sunnyvale CA
de Vries; Jan E. Los Altos CA

Fluckiger; Anne-Catherine Lyons

Banchereau; Jacques Ecully FRX

US-CL-CURRENT: $\underline{424}/\underline{85.2}$; $\underline{514}/\underline{12}$, $\underline{514}/\underline{2}$, $\underline{514}/\underline{8}$, $\underline{514}/\underline{885}$, $\underline{530}/\underline{351}$

Full Title Citation Front Review Classification Date Reference Sequences Attachments

13MC Draw Desc Image

FRX

☐ 32. Document ID: US 5959081 A

L21: Entry 32 of 36

File: USPT

Sep 28, 1999

US-PAT-NO: 5959081

DOCUMENT-IDENTIFIER: US 5959081 A

TITLE: Zinc binding LIM protein S2-6

DATE-ISSUED: September 28, 1999

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Lecka-Czernik; Beata Little Rock AR 72227

US-CL-CURRENT: 530/358; 435/320.1, 435/325, 536/23.1

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KWWC Draw Desc Image

☐ 33. Document ID: US 5905146 A

L21: Entry 33 of 36

File: USPT

May 18, 1999

US-PAT-NO: 5905146

DOCUMENT-IDENTIFIER: US 5905146 A

TITLE: DNA binding protein S1-3

DATE-ISSUED: May 18, 1999

INVENTOR-INFORMATION:

NAME

CITY STATE

Lecka-Czernik; Beata Little Rock AR

US-CL-CURRENT: 536/23.5; 435/252.3, 435/320.1, 435/325, 536/24.31

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KWWC Draw. Desc Image

ZIP CODE

☐ 34. Document ID: US 5703048 A

L21: Entry 34 of 36

File: USPT

Dec 30, 1997

COUNTRY

US-PAT-NO: 5703048

DOCUMENT-IDENTIFIER: US 5703048 A

TITLE: Protection against liver damage by HGF

DATE-ISSUED: December 30, 1997

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Roos; Filip Schwall; Ralph Brisbane Pacifica CA

CA

US-CL-CURRENT: 514/12; 435/360, 514/2, 514/838, 514/893, 514/894, 530/350, 530/399

Full Title Citation Front Review Classification Date Reference Sequences Attackments

1004C | Draw Desc | Image

☐ 35. Document ID: US 5654404 A

L21: Entry 35 of 36

File: USPT

Aug 5, 1997

US-PAT-NO: 5654404

DOCUMENT-IDENTIFIER: US 5654404 A

TITLE: Protection against liver damage by HGF

DATE-ISSUED: August 5, 1997

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Roos; Filip

Brisbane

CA

Schwall; Ralph

Pacifica

CA

US-CL-CURRENT: 530/387.3; 424/134.1, 424/136.1, 424/178.1, 530/350

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KWWC Draw Desc Image

☐ 36. Document ID: US 5286654 A

L21: Entry 36 of 36

File: USPT

Feb 15, 1994

US-PAT-NO: 5286654

DOCUMENT-IDENTIFIER: US 5286654 A

TITLE: Detection and purification of activin polypeptide

DATE-ISSUED: February 15, 1994

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Cox; Edward T.

Foster City

CA

Millbrae

CA

Mather; Jennie P. Sliwkowski; Mary B.

San Carlos

ÇA

Woodruff; Teresa K.

Millbrae

CA

US-CL-CURRENT: $\frac{436}{501}$; $\frac{436}{536}$, $\frac{530}{388.22}$, $\frac{530}{395}$, $\frac{530}{413}$

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KWWC Draw Desc Image

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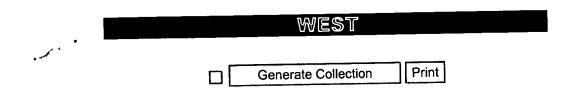
| Terms | Documents |
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L21: Entry 22 of 36

File: PGPB

Jan 24, 2002

PGPUB-DOCUMENT-NUMBER: 20020009436

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020009436 A1

TITLE: Methods and compositions for inhibiting adhesion by microorganisms

PUBLICATION-DATE: January 24, 2002

INVENTOR - INFORMATION:

RULE-47 COUNTRY STATE CITY NAME

HS KY Louisville Doyle, Ron J.

US Cincinnati OH Cowan, M. M.

US-CL-CURRENT: 424/94.6; 424/94.63

CLAIMS:

We claim:

- 1. A method of reducing binding of a microorganism to a surface, comprising enzymatically modifying an adhesin on the microorganism.
- 2. The method of claim 1, wherein enzymatically modifying comprises contacting the microorganism with a polyphenol oxidase, an asparaginase, or a combination thereof.
- 3. The method of claim 1, wherein the microorganism comprises a prokaryote, a eukaryote, a virus, or a combination thereof.
- 4. The method of claim 3, wherein the prokaryote comprises a gram-positive bacterium, a gram-negative bacterium, or a combination thereof.
- 5. The method of claim 3, wherein the prokaryote comprises a Staphylococcus.
- 6. The method of claim 3, wherein the eukaryote comprises a fungus or protozoan.
- 7. The method of claim 6, wherein the fungus comprises a Candida.
- 8. The method of claim 1, wherein the adhesin comprises a lectin.
- 9. A method of reducing adhesion by a microorganism, comprising exposing the microorganism to an effective amount of an enzyme which reduces adhesion by a microorganism.
- 10. The method of claim 9, wherein the enzyme catalyzes a reaction for modifying a molecule on the microorganism.
- 11. The method of claim 9, wherein the enzyme catalyzes modification of a side chain of an amino acid.
- 12. The method of claim 11, wherein the amino acid is found in the binding site an adhesin.
- 13. The method of claim 11, wherein the amino acid comprises asparagine, tyrosine, or a combination thereof.

- 14. The method of claim 9, wherein the enzyme modifies a carbohydrate binding site on the microorganism.
- 15. The method of claim 12, wherein a lectin comprises the carbohydrate binding site.
- 16. The method of claim 9, wherein the enzyme comprises a polyphenol oxidase, an asparaginase, or a combination thereof.
- 17. The method of claim 9, wherein the microorganism comprises a prokaryote, a eukaryote, a virus, or a combination thereof.
- 18. The method of claim 17, wherein the <u>prokaryote</u> comprises a gram-positive bacterium, a gram-negative bacterium, or a combination thereof.
- 19. The method of claim 18, wherein the prokaryote comprises a Staphylococcus.
- 20. The method of claim 17, wherein the eukaryote comprises a fungus or protozoan.
- 21. The method of claim 20, wherein the fungus comprises a Candida.
- 22. A method of treating an animal, comprising administering to the animal an effective amount of an enzyme which reduces adhesion by a microorganism to the animal's cells or tissues.
- 23. The method of claim 22, wherein the enzyme comprises a polyphenol oxidase, an asparaginase, or a combination thereof.
- 24. The method of claim 22, wherein the microorganism comprises a prokaryote, a eukaryote, a virus, or a combination thereof.
- 25. The method of claim 24, wherein the <u>prokaryote</u> comprises a gram-positive bacterium, a gram-negative bacterium, or a combination thereof.
- 26. The method of claim 24, wherein the prokaryote comprises a Staphylococcus.
- 27. The method of claim 24, wherein the eukaryote comprises a fungus or a protozoan.
- 28. The method of claim 27, wherein the fungus comprises a Candida.
- 29. The method of claim 22, wherein administering the enzyme comprises oral or topical administration.
- 30. The method of claim 29, wherein administering the enzyme comprises topical administration to a nasal tissue.
- 31. The method of claim 29, wherein administering the enzyme comprises oral administration to a digestive tissue.
- 32. The method of claim 31, wherein the oral administration to the digestive tissue comprises administering a sustained release formulation or an enteric formulation.
- 33. An oral care composition comprising an effective amount of an enzyme which reduces adhesion by a microorganism.
- 34. The oral care composition of claim 33, wherein the enzyme comprises a polyphenol oxidase, an <u>asparaginase</u>, or a combination thereof.
- 35. The oral care composition of claim 33, wherein the microorganism comprises a prokaryote, a eukaryote, a virus, or a combination thereof.
- 36. The oral care composition of claim 35, wherein the <u>prokaryote</u> comprises a gram-positive bacterium, a gram-negative bacterium, a protozoan, or a combination thereof.

- 37. The oral care composition of claim 35, wherein the <u>prokaryote</u> comprises a Staphylococcus.
- 38. The oral care composition of claim 35, wherein the eukaryote comprises a fungus or protozoan.
- 39. The oral care composition of claim 33, further comprising a buffer, a peroxide, a source of copper ion, an oxygen generating compound, or a combination thereof.
- 40. The oral care composition of claim 33, wherein the oral care composition comprises a mouthwash, a toothpaste, an implant, or a combination thereof.
- 41. The oral care composition of claim 33, wherein the oral care composition comprises a solid, a semi-solid, or a liquid composition.
- 42. A method for reducing adhesion by a microorganism to oral tissues or cells, comprising exposing the oral tissues or cells to an oral care composition comprising an effective amount of an enzyme which reduces adhesion by a microorganism.
- 43. The method of claim 42, wherein the oral care composition comprises a mouthwash, a toothpaste, an implant, or a combination thereof.
- 44. A method for reducing <u>adhesion by a microorganism</u> to a dental prosthesis, comprising exposing the dental prosthesis to an oral care composition comprising an effective amount of an enzyme which reduces <u>adhesion</u> by a microorganism.
- 45. The method of claim 44, wherein the dental prosthesis comprises a denture.
- 46. A method of making an oral composition useful for reducing adhesion by a microorganism, comprising the step of adding to an oral composition an effective amount of an enzyme which reduces adhesion by a microorganism.
- 47. A pharmaceutical composition comprising an effective amount of polyphenol oxidase which reduces adhesion by a microorganism and a pharmaceutically acceptable carrier.
- 48. The pharmaceutical composition of claim 47, wherein the polyphenol oxidase comprises polyphenol oxidase isolated from a microorganism or plant.
- 49. The pharmaceutical composition of claim 47, wherein the microorganism or plant comprises a thermophilic microorganism, a thermophilic fungus, or a mushroom.
- 50. The pharmaceutical composition of claim 47, wherein the polyphenol oxidase comprises recombinant polyphenol oxidase.